25X1A1a

Item Number 1: Model Photography Project (In progress) -

The aim of 25% 1230 fect, broadly stated, is to set up and 25% 1236 lity for

This

is an essential tool to be used as part of studies now in progress to determine a number of key system parameters.

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As compared with the present simulation technique of photographing transparencies, the model approach offers the following advantages:

- a. Elimination of problems associated with the photographic quality of the transparencies.
- b. Flexibility in lighting conditions (haze and illuminations can be varied at will).
- c. Ability to investigate stereo and color.
- d. Ability to imitate interesting areas in model form.

The program is divided into two phases. Phase I can be considered a feasibility stage, while Phase II would be more of an operational period during which a library of photographs would be compiled. Objectives of Phase I would include the

Once this is selected the models can be constructed and then protographed at realistic scales and under realistic lighting.

made as to whether or not the simulation is sufficiently realistic to justify the Phase II effort.

Attachment to DDS&T-3245-64

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25V1 \ 1 a	The estimated cost of this program is as follows:
25X1A1a	Phase II (Now - Jan 65) Phase II (Jan 65 - Jun 65)
25X1A1a 25X1A1a 25X1A1a	* Since of this amount has already been committed from FY-65 SPS funds and the same is available for commitment, the balance of funds required in Phase I is
25X1A1a	Item Number II: Aerial Image Modulation Detectibility Curves -
25X1A5a2 5X1A5a2	The object of this program is to measure the 3-bar target modulation detectibility of and as a function of
	a. exposure.
	b. processing, and
25X1A5a2 25X1A5a2 25X1A5a2	and the nave conducted independent studies with a view toward determining aerial image modulation (AIM) curves for the but there are considerable and significant discrepancies between the curves they developed.
25X1X3 25X1A5a2	Therefore, since an accurate estimate of the predicted resolution for the depends on an accurate AIM curve, another independent attempt must be made to compile these data.
25X1A1a	It is proposed that the contract for approximately to conduct this investigation.
	Work on this effort would begin ASAP and continue through 1 February 1965.

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25X1A1a Item Number III: Photographic Presentation of Resolution -The objective of this studio 3 to be the development and 25X4BQ6tion of briefing books of photographic quality. This would be a key part of the final presentation, and work must commence immedi-25X1X3 ately if the material is to be ready by 1 February 1965. This project would start ASAP (also with and 25X1A5a2 run through February 1965 at an estimated cost of 25X1A1a 25X1A1a Item Number IV: Titan III Utilization Studies -The DCI has been asked by the Secretary of Defense to examine the Titan III missile with a view toward intelligence oriented utilization. In response to this requirement we propose to undertake a detailed study of the Titan III which would additionally tell us what operational parameters could be expected with this family of missiles in the We anticipate that we will also explore possible 25X1X3 programs. 25X1X3 utilization of the Titan III in the It is estimated that a two to three months program effort would 25X1A1a This would include five be necessary, at a cost of about full time engineers plus some computer time. Work would begin ASAP and continue through February.

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